

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 10-291820

(43)Date of publication of application : 04.11.1998

(51)Int.Cl.

C01F 11/02
C02F 1/66
C08K 3/22
C09D 7/12
C09K 17/06
// B23K 9/32
C09K103:00

(21)Application number : 10-038858

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(22)Date of filing : 20.02.1998

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(30)Priority

Priority number : 09 38129 Priority date : 21.02.1997 Priority country : JP

(54) HIGH CONCENTRATION CALCIUM HYDROXIDE AQUEOUS SUSPENSION LIQUID AND ITS PRODUCTION METHOD

(57)Abstract:

PROBLEM TO BE SOLVED: To produce a high concn. calcium hydroxide aq. suspension liquid hardly settling even if a solid content is high low in viscosity, good in stability of viscosity with the lapse of time and excellent in workability.

SOLUTION: A suspension liquid is composed of a material having ≤ 2000 cP viscosity, a 41-75 wt.% solid content and in which ≥ 95 wt.% of the solid part is particles having ≤ 45 μm grain size. The suspension liquid is obtained by mixing calcium oxide particles whose a part can be carbonated with water and allowing the mixture to react and at that time, a temp rise width due to the primary temp. rise at mixing time is controlled so as to be $\leq 15^\circ\text{C}$ and a time from the mixing time to a starting time of the secondary temp. rise is controlled so as to be ≥ 1 min to obtain the high conc. calcium hydroxide aqueous suspension liq.